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CIRCULAR NO. 137

U. S. Naval Observatory, Washington, D. C. 20390 March 14, 1972

EPHEMERIS OF THE RADIO LONGITUDE OF THE CENTRAL MERIDIAN OF JUPITER

System III (1957.0)

by

Berenice L. Morrison and Victoria Meiller

In accordance with a Report to Commission 40 of the International Astronomical Union by the Working Group, on the definition of longitudes of radio emissions from Jupiter, System III (1957.0) has been defined by a provisionally adopted period, and a central meridian which at the epoch agrees with System II (*Information Bulletin* No. 8, 1962 March, page 4) :

Epoch 1957 January 1.0 U. T. J. D. 243 5839.5

Period $9^h\ 55^m\ 29^s.37$

Central meridian

Longitude at epoch	$108^\circ.02$
Daily motion	870. 544

In this *Circular,* an ephemeris of the central meridian of the geometric disk on this system, with the corrections for phase to reduce to the illuminated disk, is given for 1972, 1973, 1974 and 1975. This publication continues the ephemerides given in *U. S. Naval Observatory Circular* No. 117. Data for further years will be made available as required.

JUPITER, 1972

LONGITUDE OF CENTRAL MERIDIAN

SYSTEM III (1957.0)

Day (0h U.T.)	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	302.5	284.1	326.8	312.6	150.4	140.9	341.3	330.5	316.3	148.4	128.6	317.5
2	92.9	74.5	117.2	103.1	301.0	291.6	132.0	121.1	106.8	298.8	278.9	107.8
3	243.2	224.9	267.7	253.7	91.6	82.3	282.6	271.7	257.2	89.1	69.2	258.1
4	33.6	15.3	58.2	44.3	242.3	232.9	73.3	62.2	47.7	239.5	219.5	48.3
5	183.9	165.8	208.7	194.8	32.9	23.6	223.9	212.8	198.1	29.8	9.8	198.6
6	334.3	316.2	359.1	345.4	183.6	174.3	14.6	3.3	348.5	180.2	160.1	348.9
7	124.6	106.6	149.6	136.0	334.2	325.0	165.2	153.9	139.0	330.5	310.4	139.2
8	275.0	257.0	300.1	286.5	124.8	115.7	315.9	304.4	289.4	120.9	100.7	289.5
9	65.4	47.4	90.6	77.1	275.5	266.4	106.5	95.0	79.8	271.2	251.0	79.8
10	215.7	197.8	241.1	227.7	66.1	57.1	257.2	245.5	230.2	61.5	41.3	230.1
11	6.1	348.3	31.6	18.2	216.8	207.7	47.8	36.0	20.7	211.9	191.6	20.4
12	156.4	138.7	182.1	168.8	7.5	358.4	198.5	186.6	171.1	2.2	341.9	170.7
13	306.8	289.1	332.6	319.4	158.1	149.1	349.1	337.1	321.5	152.6	132.2	321.0
14	97.2	79.6	123.1	110.0	308.8	299.8	139.7	127.6	111.9	302.9	282.5	111.3
15	247.5	230.0	273.6	260.6	99.4	90.5	290.3	278.1	262.3	93.2	72.8	261.5
16	37.9	20.4	64.1	51.2	250.1	241.2	81.0	68.6	52.7	243.6	223.1	51.8
17	188.3	170.9	214.6	201.8	40.8	31.8	231.6	219.1	203.1	33.9	13.4	202.1
18	338.7	321.3	5.1	352.4	191.4	182.5	22.2	9.7	353.5	184.2	163.7	352.4
19	129.0	111.7	155.6	143.0	342.1	333.2	172.8	160.2	143.9	334.5	314.0	142.7
20	279.4	262.2	306.2	293.6	132.8	123.9	323.4	310.6	294.3	124.9	104.3	293.0
21	69.8	52.6	96.7	84.2	283.4	274.6	114.1	101.1	84.7	275.2	254.6	83.3
22	220.2	203.1	247.2	234.8	74.1	65.2	264.7	251.6	235.1	65.5	44.9	233.6
23	10.6	353.5	37.7	25.4	224.8	215.9	55.3	42.1	25.4	215.8	195.2	23.9
24	161.0	144.0	188.3	176.0	15.5	6.6	205.9	192.6	175.8	6.1	345.4	174.2
25	311.3	294.4	338.8	326.6	166.1	157.3	356.5	343.1	326.2	156.4	135.7	324.5
26	101.7	84.9	129.3	117.2	316.8	307.9	147.1	133.6	116.6	306.8	286.0	114.8
27	252.1	235.4	279.9	267.9	107.5	98.6	297.6	284.0	266.9	97.1	76.3	265.1
28	42.5	25.8	70.4	58.5	258.2	249.3	88.2	74.5	57.3	247.4	226.6	55.4
29	192.9	176.3	220.9	209.1	48.8	40.0	238.8	225.0	207.7	37.7	16.9	205.7
30	343.3		11.5	359.7	199.5	190.6	29.4	15.4	358.0	188.0	167.2	356.0
31	133.7		162.0		350.2		180.0	165.9		338.3		146.3

CORRECTION FOR PHASE

Day (0h U.T.)	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	0.0	+0.2	+0.4	+0.5	+0.4	+0.1	0.0	-0.2	-0.5	-0.5	-0.4	-0.2
3	+0.1	+0.2	+0.4	+0.5	+0.4	+0.1	0.0	-0.2	-0.5	-0.5	-0.4	-0.1
5	+0.1	+0.3	+0.5	+0.5	+0.3	+0.1	0.0	-0.3	-0.5	-0.5	-0.3	-0.1
7	+0.1	+0.3	+0.5	+0.5	+0.3	+0.1	0.0	-0.3	-0.5	-0.5	-0.3	-0.1
9	+0.1	+0.3	+0.5	+0.5	+0.3	+0.1	0.0	-0.3	-0.5	-0.5	-0.3	-0.1
11	+0.1	+0.3	+0.5	+0.5	+0.3	0.0	-0.1	-0.3	-0.5	-0.5	-0.3	-0.1
13	+0.1	+0.3	+0.5	+0.5	+0.3	0.0	-0.1	-0.3	-0.5	-0.5	-0.3	-0.1
15	+0.1	+0.3	+0.5	+0.5	+0.3	0.0	-0.1	-0.4	-0.5	-0.5	-0.3	-0.1
17	+0.1	+0.3	+0.5	+0.5	+0.2	0.0	-0.1	-0.4	-0.5	-0.5	-0.3	-0.1
19	+0.1	+0.4	+0.5	+0.5	+0.2	0.0	-0.1	-0.4	-0.5	-0.5	-0.2	-0.1
21	+0.2	+0.4	+0.5	+0.5	+0.2	0.0	-0.1	-0.4	-0.5	-0.4	-0.2	0.0
23	+0.2	+0.4	+0.5	+0.4	+0.2	0.0	-0.1	-0.4	-0.5	-0.4	-0.2	0.0
25	+0.2	+0.4	+0.5	+0.4	+0.2	0.0	-0.2	-0.4	-0.5	-0.4	-0.2	0.0
27	+0.2	+0.4	+0.5	+0.4	+0.1	0.0	-0.2	-0.5	-0.5	-0.4	-0.2	0.0
29	+0.2	+0.4	+0.5	+0.4	+0.1	0.0	-0.2	-0.5	-0.5	-0.4	-0.2	0.0
31	+0.2		+0.5		+0.1		-0.2	-0.5		-0.4		0.0

JUPITER, 1973

LONGITUDE OF CENTRAL MERIDIAN

SYSTEM III (1957.0)

Day (0h U.T.)	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	296.6	276.5	166.7	149.7	344.6	332.4	172.0	163.1	152.8	348.5	331.3	161.2
2	86.9	66.9	317.1	300.2	135.1	123.1	322.7	313.8	303.4	139.0	121.6	311.5
3	237.2	217.2	107.5	90.6	285.6	273.7	113.3	104.5	93.9	289.5	272.0	101.8
4	27.5	7.5	257.8	241.1	76.2	64.3	264.0	255.1	244.5	79.9	62.4	252.1
5	177.8	157.9	48.2	31.6	226.7	214.9	54.7	45.8	35.1	230.4	212.7	42.4
6	328.1	308.2	198.6	182.0	17.3	5.6	205.4	196.5	185.7	20.8	3.1	192.7
7	118.4	98.6	349.0	332.5	167.8	156.2	356.1	347.1	336.2	171.3	153.4	343.0
8	268.7	248.9	139.4	123.0	318.4	306.8	146.7	137.8	126.8	321.7	303.8	133.3
9	59.1	39.3	289.8	273.5	108.9	97.5	297.4	288.5	277.3	112.1	94.1	283.6
10	209.4	189.6	80.2	63.9	259.5	248.1	88.1	79.1	67.9	262.6	244.4	73.9
11	359.7	340.0	230.7	214.4	50.0	38.7	238.8	229.8	218.4	53.0	34.8	224.2
12	150.0	130.3	21.1	4.9	200.6	189.4	29.5	20.4	9.0	203.4	185.1	14.5
13	300.3	280.7	171.5	155.4	351.2	340.0	180.2	171.1	159.5	353.9	335.5	164.7
14	90.6	71.1	321.9	305.9	141.7	130.7	330.9	321.7	310.1	144.3	125.8	315.0
15	240.9	221.4	112.3	96.4	292.3	281.3	121.5	112.3	100.6	294.7	276.1	105.3
16	31.3	11.8	262.7	246.9	82.9	72.0	272.2	263.0	251.1	85.1	66.5	255.6
17	181.6	162.1	53.1	37.4	233.5	222.6	62.9	53.6	41.6	235.5	216.8	45.9
18	331.9	312.5	203.6	187.8	24.0	13.3	213.6	204.3	192.2	25.9	7.1	196.2
19	122.2	102.9	354.0	338.3	174.6	163.9	4.3	354.9	342.7	176.3	157.4	346.5
20	272.5	253.3	144.4	128.9	325.2	314.6	155.0	145.5	133.2	326.7	307.7	136.8
21	62.9	43.6	294.9	279.4	115.8	105.3	305.7	296.1	283.7	117.1	98.1	287.1
22	213.2	194.0	85.3	69.9	266.4	255.9	96.3	86.8	74.2	267.5	248.4	77.3
23	3.5	344.4	235.7	220.4	57.0	46.6	247.0	237.4	224.7	57.9	38.7	227.6
24	153.8	134.8	26.2	10.9	207.6	197.3	37.7	28.0	15.2	208.3	189.0	17.9
25	304.2	285.1	176.6	161.4	358.2	347.9	188.4	178.6	165.7	358.7	339.3	168.2
26	94.5	75.5	327.0	311.9	148.8	138.6	339.1	329.2	316.2	149.1	129.6	318.5
27	244.8	225.9	117.5	102.4	299.4	289.3	129.7	119.8	106.6	299.4	280.0	108.8
28	35.2	16.3	267.9	253.0	90.0	79.9	280.4	270.4	257.1	89.8	70.3	259.0
29	185.5		58.4	43.5	240.6	230.6	71.1	61.0	47.6	240.2	220.6	49.3
30	335.8		208.8	194.0	31.2	21.3	221.8	211.6	198.1	30.5	10.9	199.6
31	126.2		359.3		181.8		12.5	2.2		180.9		349.9

CORRECTION FOR PHASE

Day (0h U.T.)	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	0.0	0.0	+0.2	+0.4	+0.6	+0.4	+0.2	0.0	-0.2	-0.5	-0.6	-0.4
3	0.0	+0.1	+0.2	+0.5	+0.6	+0.4	+0.1	0.0	-0.2	-0.5	-0.6	-0.4
5	0.0	+0.1	+0.2	+0.5	+0.6	+0.4	+0.1	0.0	-0.2	-0.5	-0.5	-0.4
7	0.0	+0.1	+0.3	+0.5	+0.6	+0.4	+0.1	0.0	-0.3	-0.5	-0.5	-0.4
9	0.0	+0.1	+0.3	+0.5	+0.6	+0.4	+0.1	0.0	-0.3	-0.5	-0.5	-0.4
11	0.0	+0.1	+0.3	+0.5	+0.6	+0.4	+0.1	0.0	-0.3	-0.5	-0.5	-0.3
13	0.0	+0.1	+0.3	+0.5	+0.5	+0.3	+0.1	0.0	-0.3	-0.5	-0.5	-0.3
15	0.0	+0.1	+0.3	+0.5	+0.5	+0.3	+0.1	-0.1	-0.3	-0.5	-0.5	-0.3
17	0.0	+0.1	+0.3	+0.5	+0.5	+0.3	0.0	-0.1	-0.4	-0.5	-0.5	-0.3
19	0.0	+0.1	+0.4	+0.5	+0.5	+0.3	0.0	-0.1	-0.4	-0.6	-0.5	-0.3
21	0.0	+0.2	+0.4	+0.5	+0.5	+0.3	0.0	-0.1	-0.4	-0.6	-0.5	-0.3
23	0.0	+0.2	+0.4	+0.6	+0.5	+0.2	0.0	-0.1	-0.4	-0.6	-0.5	-0.2
25	0.0	+0.2	+0.4	+0.6	+0.5	+0.2	0.0	-0.1	-0.4	-0.6	-0.5	-0.2
27	0.0	+0.2	+0.4	+0.6	+0.5	+0.2	0.0	-0.1	-0.4	-0.6	-0.4	-0.2
29	0.0		+0.4	+0.6	+0.5	+0.2	0.0	-0.2	-0.5	-0.6	-0.4	-0.2
31	0.0		+0.4		+0.5		0.0	-0.2		-0.6		-0.2

JUPITER, 1974

LONGITUDE OF CENTRAL MERIDIAN

SYSTEM III (1957.0)

Day (0h U.T.)	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°		°	°	°	°	°	°	°	°	°
1	140.2	119.0	7.6	348.4	180.5	165.2	1.8	351.5	342.6	182.2	169.2	2.0
2	290.5	269.3	158.0	138.8	330.9	315.7	152.4	142.1	133.3	332.8	319.7	152.3
3	80.8	59.6	308.3	289.1	121.4	106.2	303.0	292.8	284.0	123.4	110.1	302.7
4	231.0	209.9	98.6	79.5	271.8	256.7	93.6	83.5	74.7	274.0	260.6	93.1
5	21.3	0.2	248.9	229.9	62.2	47.2	244.2	234.1	225.3	64.6	51.1	243.4
6	171.6	150.5	39.3	20.3	212.7	197.8	34.8	24.8	16.0	215.2	201.5	33.8
7	321.9	300.8	189.6	170.7	3.1	348.3	185.4	175.5	166.7	5.8	352.0	184.2
8	112.2	91.1	339.9	321.1	153.6	138.8	336.0	326.2	317.4	156.4	142.5	334.5
9	262.5	241.4	130.3	111.4	304.0	289.3	126.6	116.9	108.0	306.9	292.9	124.9
10	52.7	31.7	280.6	261.8	94.5	79.9	277.2	267.5	258.7	97.5	83.4	275.2
11	203.0	182.0	70.9	52.2	245.0	230.4	67.9	58.2	49.4	248.1	233.8	65.6
12	353.3	332.3	221.3	202.6	35.4	21.0	218.5	208.9	200.0	38.7	24.3	215.9
13	143.6	122.6	11.6	353.0	185.9	171.5	9.1	359.6	350.7	189.2	174.7	6.3
14	293.9	272.9	162.0	143.4	336.3	322.0	159.7	150.3	141.4	339.8	325.1	156.6
15	84.2	63.2	312.3	293.8	126.8	112.6	310.4	301.0	292.0	130.3	115.6	307.0
16	234.4	213.5	102.6	84.2	277.3	263.2	101.0	91.6	82.7	280.9	266.0	97.3
17	24.7	3.9	253.0	234.6	67.8	53.7	251.6	242.3	233.3	71.4	56.4	247.6
18	175.0	154.2	43.3	25.0	218.2	204.3	42.3	33.0	24.0	222.0	206.8	38.0
19	325.3	304.5	193.7	175.4	8.7	354.8	192.9	183.7	174.6	12.5	357.2	188.3
20	115.6	94.8	344.0	325.8	159.2	145.4	343.6	334.4	325.3	163.1	147.7	338.6
21	265.9	245.1	134.4	116.2	309.7	296.0	134.2	125.1	115.9	313.6	298.1	128.9
22	56.2	35.4	284.8	266.7	100.2	86.5	284.9	275.8	266.6	104.1	88.5	279.3
23	206.4	185.7	75.1	57.1	250.6	237.1	75.5	66.4	57.2	254.6	238.9	69.6
24	356.7	336.0	225.5	207.5	41.1	27.7	226.2	217.1	207.8	45.2	29.3	219.9
25	147.0	126.4	15.8	357.9	191.6	178.3	16.8	7.8	358.5	195.7	179.7	10.2
26	297.3	276.7	166.2	148.3	342.1	328.8	167.5	158.5	149.1	346.2	330.1	160.5
27	87.6	67.0	316.5	298.8	132.6	119.4	318.1	309.2	299.7	136.7	120.4	310.9
28	237.9	217.3	106.9	89.2	283.1	270.0	108.8	99.9	90.3	287.2	270.8	101.2
29	28.2		257.3	239.6	73.6	60.6	259.5	250.6	241.0	77.7	61.2	251.5
30	178.5		47.6	30.1	224.1	211.2	50.1	41.2	31.6	228.2	211.6	41.8
31	328.8		198.0		14.6		200.8	191.9		18.7		192.1

CORRECTION FOR PHASE

Day (0h U.T.)	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	-0.2	0.0	0.0	+0.2	+0.4	+0.6	+0.5	+0.2	0.0	-0.1	-0.4	-0.6
3	-0.2	0.0	0.0	+0.2	+0.4	+0.6	+0.5	+0.2	0.0	-0.1	-0.5	-0.6
5	-0.2	0.0	0.0	+0.2	+0.5	+0.6	+0.5	+0.2	0.0	-0.2	-0.5	-0.6
7	-0.1	0.0	0.0	+0.2	+0.5	+0.6	+0.5	+0.2	0.0	-0.2	-0.5	-0.6
9	-0.1	0.0	+0.1	+0.3	+0.5	+0.6	+0.5	+0.2	0.0	-0.2	-0.5	-0.6
11	-0.1	0.0	+0.1	+0.3	+0.5	+0.6	+0.4	+0.1	0.0	-0.2	-0.5	-0.6
13	-0.1	0.0	+0.1	+0.3	+0.5	+0.6	+0.4	+0.1	0.0	-0.2	-0.5	-0.6
15	-0.1	0.0	+0.1	+0.3	+0.5	+0.6	+0.4	+0.1	0.0	-0.3	-0.5	-0.5
17	-0.1	0.0	+0.1	+0.3	+0.5	+0.6	+0.4	+0.1	0.0	-0.3	-0.5	-0.5
19	-0.1	0.0	+0.1	+0.3	+0.5	+0.6	+0.4	+0.1	0.0	-0.3	-0.6	-0.5
21	-0.1	0.0	+0.1	+0.4	+0.6	+0.6	+0.4	+0.1	-0.1	-0.3	-0.6	-0.5
23	-0.1	0.0	+0.1	+0.4	+0.6	+0.6	+0.3	0.0	-0.1	-0.4	-0.6	-0.5
25	0.0	0.0	+0.1	+0.4	+0.6	+0.6	+0.3	0.0	-0.1	-0.4	-0.6	-0.5
27	0.0	0.0	+0.2	+0.4	+0.6	+0.5	+0.3	0.0	-0.1	-0.4	-0.6	-0.5
29	0.0		+0.2	+0.4	+0.6	+0.5	+0.3	0.0	-0.1	-0.4	-0.6	-0.5
31	0.0		+0.2		+0.6		+0.2	0.0		-0.4		-0.5

JUPITER, 1975

LONGITUDE OF CENTRAL MERIDIAN

SYSTEM III (1957.0)

Day (0^h U.T.)	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	342.4	321.4	209.2	188.4	18.3	0.3	193.8	180.3	169.4	9.7	0.4	197.7
2	132.7	111.6	359.5	338.7	168.7	150.7	344.3	330.8	320.0	160.4	151.1	348.2
3	283.0	261.9	149.7	129.0	319.1	301.1	134.8	121.4	110.7	311.1	301.7	138.7
4	73.3	52.2	300.0	279.3	109.4	91.6	285.3	272.0	261.4	101.8	92.3	289.2
5	223.6	202.5	90.3	69.6	259.8	242.0	75.8	62.6	52.0	252.5	242.9	79.7
6	13.9	352.7	240.6	219.9	50.2	32.4	226.3	213.2	202.7	43.2	33.6	230.2
7	164.2	143.0	30.9	10.3	200.5	182.8	16.8	3.8	353.3	193.8	184.2	20.7
8	314.5	293.3	181.2	160.6	350.9	333.3	167.3	154.4	144.0	344.5	334.8	171.2
9	104.8	83.6	331.5	310.9	141.3	123.7	317.8	304.9	294.7	135.2	125.4	321.6
10	255.1	233.9	121.8	101.2	291.6	274.1	108.3	95.5	85.4	285.9	276.0	112.1
11	45.4	24.1	272.0	251.5	82.0	64.6	258.8	246.1	236.0	76.6	66.6	262.6
12	195.7	174.4	62.3	41.9	232.4	215.0	49.4	36.8	26.7	227.3	217.2	53.1
13	346.0	324.7	212.6	192.2	22.8	5.5	199.9	187.4	177.4	17.9	7.8	203.5
14	136.3	115.0	2.9	342.5	173.1	155.9	350.4	338.0	328.1	168.6	158.4	354.0
15	286.5	265.2	153.2	132.9	323.5	306.3	140.9	128.6	118.7	319.3	308.9	144.4
16	76.8	55.5	303.5	283.2	113.9	96.8	291.5	279.2	269.4	110.0	99.5	294.9
17	227.1	205.8	93.8	73.5	264.3	247.2	82.0	69.8	60.1	260.6	250.1	85.3
18	17.4	356.1	244.1	223.9	54.7	37.7	232.5	220.4	210.8	51.3	40.7	235.8
19	167.7	146.4	34.4	14.2	205.1	188.2	23.0	11.1	1.5	202.0	191.2	26.2
20	318.0	296.6	184.7	164.5	355.4	338.6	173.6	161.7	152.2	352.6	341.8	176.7
21	108.3	86.9	335.0	314.9	145.8	129.1	324.1	312.3	302.8	143.3	132.3	327.1
22	258.5	237.2	125.3	105.2	296.2	279.5	114.7	102.9	93.5	294.0	282.9	117.5
23	48.8	27.5	275.6	255.6	86.6	70.0	265.2	253.6	244.2	84.6	73.4	267.9
24	199.1	177.8	65.9	45.9	237.0	220.5	55.8	44.2	34.9	235.3	224.0	58.4
25	349.4	328.0	216.2	196.2	27.4	10.9	206.3	194.8	185.6	25.9	14.5	208.8
26	139.7	118.3	6.5	346.6	177.8	161.4	356.9	345.5	336.3	176.6	165.1	359.2
27	290.0	268.6	156.8	136.9	328.2	311.9	147.4	136.1	127.0	327.2	315.6	149.6
28	80.2	58.9	307.1	287.3	118.6	102.4	298.0	286.8	277.7	117.9	106.1	300.0
29	230.5		97.4	77.6	269.1	252.9	88.6	77.4	68.3	268.5	256.7	90.4
30	20.8		247.7	228.0	59.5	43.3	239.1	228.1	219.0	59.2	47.2	240.8
31	171.1		38.0		209.9		29.7	18.7		209.8		31.2

CORRECTION FOR PHASE

Day (0^h U.T.)	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	-0.5	-0.2	0.0	0.0	+0.2	+0.4	+0.6	+0.6	+0.3	0.0	-0.1	-0.4
3	-0.4	-0.2	0.0	0.0	+0.2	+0.4	+0.6	+0.6	+0.3	0.0	-0.1	-0.4
5	-0.4	-0.2	0.0	0.0	+0.2	+0.4	+0.6	+0.6	+0.3	0.0	-0.1	-0.4
7	-0.4	-0.2	0.0	0.0	+0.2	+0.4	+0.6	+0.5	+0.3	0.0	-0.1	-0.4
9	-0.4	-0.2	0.0	0.0	+0.2	+0.5	+0.6	+0.5	+0.2	0.0	-0.1	-0.4
11	-0.4	-0.1	0.0	0.0	+0.2	+0.5	+0.6	+0.5	+0.2	0.0	-0.2	-0.5
13	-0.4	-0.1	0.0	+0.1	+0.2	+0.5	+0.6	+0.5	+0.2	0.0	-0.2	-0.5
15	-0.4	-0.1	0.0	+0.1	+0.3	+0.5	+0.6	+0.5	+0.2	0.0	-0.2	-0.5
17	-0.3	-0.1	0.0	+0.1	+0.3	+0.5	+0.6	+0.5	+0.1	0.0	-0.2	-0.5
19	-0.3	-0.1	0.0	+0.1	+0.3	+0.5	+0.6	+0.5	+0.1	0.0	-0.2	-0.5
21	-0.3	-0.1	0.0	+0.1	+0.3	+0.5	+0.6	+0.4	+0.1	0.0	-0.3	-0.5
23	-0.3	-0.1	0.0	+0.1	+0.3	+0.5	+0.6	+0.4	+0.1	0.0	-0.3	-0.5
25	-0.3	-0.1	0.0	+0.1	+0.3	+0.6	+0.6	+0.4	+0.1	0.0	-0.3	-0.5
27	-0.3	-0.1	0.0	+0.1	+0.4	+0.6	+0.6	+0.4	+0.1	0.0	-0.3	-0.6
29	-0.2		0.0	+0.1	+0.4	+0.6	+0.6	+0.3	+0.1	-0.1	-0.4	-0.6
31	-0.2		0.0		+0.4		+0.6	+0.3		-0.1		-0.6